UNIVERSITY of WASHINGTON
School of Forest Resources

Date: April 18, 2011

To: Craig Partridge, Washington State Department of Natural Resources

Re: Monthly Report Contract No. PSC 11-10, Washington Forest Biomass Supply Assessment

Submitted by: John Perez-Garcia, Principal Investigator

1) Activities Undertaken:
   a) Conducted two public meetings
   b) Submitted Characterization of Forest Biomass discussion document
   c) Presented our plan for incorporating ecological retention into our estimates at the 1st public meeting
   d) Began the literature review on the topic of ecological retention
   e) Worked to identify the ecological classifiers we can use to link the ecological limits to the inventory and at the same time identified what I see as a core issue with FVS modeling and how to address its over-predictions.
   f) Conduct interviews with survey candidates in eastern Washington, including:
      i) Industrial forest landowners,
      ii) WA DNR forest land managers,
      iii) WA DFW forest land managers,
      iv) Tribal forest land managers
      v) USFS forest land managers,
      vi) Small private forest landowners,
      vii) fiber managers,
      viii) biomass processors
   g) Continue to refine survey templates based upon initial interviews and responses from survey candidates
   h) Continue to initiate contact and deliver project overview to:
      i) Landowners/managers
      ii) Fiber procurement managers
      iii) Biomass processors
   i) Continue to contact project developers for proposed biomass facilities in Washington to determine current status of development.
   j) Conference call with the University of Washington on 7 April 2010 to discuss:
      i) data from survey interviews related to stand density and tree size for prospective timber harvest operations

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k) Conduct initial meeting with Weyerhaeuser relative to information and data requirements for the project, confidentiality issues, timeframe for continued discussions or meetings with tree farm managers and fiber procurement manager, as well as release for Jeff Linquist to discuss biomass recovery as Weyerhaeuser employee.
l) Develop schedule and appointments for upcoming site visits with land managers, fiber procurement managers, biomass processing contractors, etc.
m) Create biomass estimation method comparison spreadsheet to evaluate the various methods for calculating biomass from inventory information
n) Identify FCIDs (plots) that need to be regenerated for initial inventory.
o) Fix incorrect species codes in initial inventory estimate.
p) Update simulation system to run on FCIDs by county. This takes the number of simulations from 5998 to 45040 for the analysis. The actual simulations will be larger because each FCID will be simulated with multiple management scenarios (no management-buffer, thinning, regeneration harvest, etc) for each land owner class.
q) Analyze impact of using default habitat type for simulations – need to specify habitat types for best results
r) Analyze impact of FCIDs moving between FVS growth model variants for simulations.
s) Develop habitat type selection methodology based on IMAP species and understory species information in the GNN inventory database.
t) Begin analysis of impact of maximum SDI on growth estimates.
u) Perform an analysis of default maximum SDI values by FVS variant and habitat type.
v) Compare maximum SDI values to other modeling efforts and experience.
w) Examine WA DNR inventory information for habitat types, maximum SDI values, and other model adjustments to inform adjustments to FVS growth estimates.

2) Obstacles Encountered: None
3) Plans to addressed said obstacles: None

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